

METHOD FOR INCREASING THE STRENGTH OF A VOLUME OF
SOIL, PARTICULARLY FOR CONTAINING AND SUPPORTING
EXCAVATION FACES

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ABSTRACT OF THE DISCLOSURE

A method for increasing the strength of a volume of soil, particularly
for containing and supporting excavation faces, which comprises at least
one reinforcement step that consists in producing a plurality of mutually
10 spaced reinforcement holes arranged substantially vertically or inclined with
respect to a vertical direction in the volume of soil to be strengthened;
reinforcement elements are then inserted in the reinforcement holes and are
locked within the soil by injecting in the reinforcement holes a synthetic
locking substance that expands by chemical reaction. The method can
15 optionally also comprise a step for consolidation of the volume of soil by
injecting, in injection holes that are arranged vertically or are inclined with
respect to the vertical and are formed beforehand in the soil, a synthetic
consolidation substance that expands by chemical reaction.

20 (Figure 10)